

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT ID ONE POINT BACK PRESSURE TEST FOR WELL

Form C-122

151

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1/15/2000	
Company YATES PETROLEUM CORPORATION				Connection AGAVE ENERGY			
Pool PECOS SLOPE				Formation ABO		Unit	
Completion Date 11/13/1999		Total Depth 4230		Plug Back TD 4100		Elevation 3625	
Farm or Lease Name GETTY PS 17							
Csg. Size 4.500	Wt. 10.500	d 4.052	Set At 4198	Perforations: From 3697 To 4093		Well No. 2	
Tbg. Size 1.125	Wt. 2.300	d 1.380	Set At 3680	Perforations: From 3697 To 4093		Unit 1	Sec. 17
Type Well Single						Packer Set At 4198	County EDDY
Producing Thru Tubing		Resv. Temp. °F 100 @ 4198		Mean Temp. °F 62		Baro. Press. - Pa 13.2	
State NEW MEXICO							
L 4198	H 4198	Gg 0.654	%CO ₂ 0.038	%N ₂ 9.172	%H ₂ S 0.000	Prover 0.000	Meter Run 2.000
Taps Flange							

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
Sl.	0.000	x	0.000	0	0.0	0	365	0			0
1.	2.067	x	0.750	115	44.0	60	160	60			24
2.	2.067	x	0.750	115	47.0	60	145	60			24
3.	2.067	x	0.750	115	50.0	60	130	60			24
4.	2.067	x	0.750	115	52.0	60	115	60			24
5.		x									

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	√ hwPm	Pressure Pm	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	2.709	75.1	128.2	1.0000	1.237	1.010	254
2.	2.709	77.6	128.2	1.0000	1.237	1.010	263
3.	2.709	80.1	128.2	1.0000	1.237	1.010	271
4.	2.709	81.6	128.2	1.0000	1.237	1.010	276
5.							

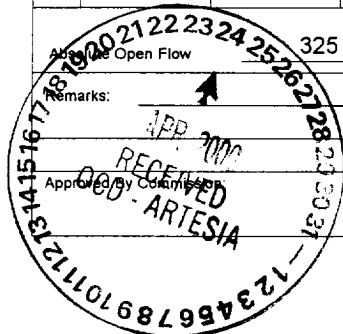
NO.	Pr	Temp °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.20	520	1.49	0.980	0	
2.	0.20	520	1.49	0.980	0.000	Deg.
3.	0.20	520	1.49	0.980	0.654	XXXXXXXXXX
4.	0.20	520	1.49	0.980	0.654	XXXXXXXXXX
5.						

Pc	378.2	Pc²	143.0
NO.	Pi²	Pw	Pw²
1.	30.0	192.0	36.9
2.	25.0	180.0	32.4
3.	20.5	168.4	28.4
4.	16.4	156.9	24.6
5.			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.293$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.237$	
AOF = Q		$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 325$	

325 Mcfd @ 15.025		Angle of Slope θ	40	Slope, n	0.828
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Remarks:			
Conducted By: DON McCAMPBELL		Calculated By: MYKOL RENO	
Checked By: PINSON MCWHORTER			



WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (Pw) C-122D

DATE 1/15/2000

COMPANY YATES PETROLEUM CORPORATION LEASE GETTY PS 17 WELL NO. 2

LOCATION: Unit I Section 17 Township 6S Range 26E

L 4198 H 4198 L/H 1.000 G 0.654 %CO₂ 0.038 %N₂ 9.172 %H₂S 0.000

d 1.380 Fr 0.046552 GH 2745.5 Pcr 654.9 Tcr 348.1

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	0.254	0.263	0.271	0.276	
2 Tw(W.H.°R)	520	520	520	520	
3 Ts(B.H.°R)	560	560	560	560	
4 T = (Tw+Ts) / 2	539.7	539.7	539.7	539.7	
5 Z (Est.)	0.973	0.975	0.977	0.979	
6 TZ	525.4	526.4	527.4	528.4	
7 GH / TZ	5.226	5.216	5.206	5.195	
8 e ^{As} (Table XIV)	1.216	1.216	1.216	1.215	
9 1-e ^{As} (Table XIV)	0.178	0.178	0.177	0.177	
10 Pt	173.2	158.2	143.2	128.2	
11 Pt ² / 1000	30.0	25.0	20.5	16.4	
12 Fr (Table XV)	0.046552	0.046552	0.046552	0.046552	
13 Fc = FrTZ	24.456	24.505	24.552	24.600	
14 FcQm	6.22	6.44	6.65	6.80	
15 L / H(FcQm) ²	38.6	41.4	44.3	46.2	
16 Fw = L / H(FcQm) ² (1-e ^{As})	6.88	7.36	7.85	8.18	
17 Pw ² = Pt ² +Fw	36.9	32.4	28.4	24.6	
18 Ps ² = e ^{As} Pw ²	44.9	39.4	34.5	29.9	
19 Ps	211.8	198.5	185.7	172.9	
20 P = (Pt+Ps) / 2	192.5	178.3	164.4	150.6	
21 Pr = (P / Pcr)	0.29	0.27	0.25	0.23	
22 Tr = (T / Tcr)	1.55	1.55	1.55	1.55	
23 Z (Table XI)	0.973	0.975	0.977	0.979	

Well
Location
10^4

GETTY PS 17 #2
117-6S-26E

Q, Mcfd

County
Date

EDDY
1-15-2000

10^3

10^2

10^2

10^3
AOF = 325

10^4

Pc-Fw

